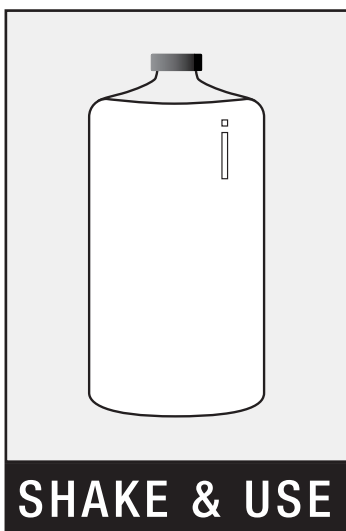


OIL EMULSION VACCINES

Storage and Handling of Oil Emulsion Vaccines

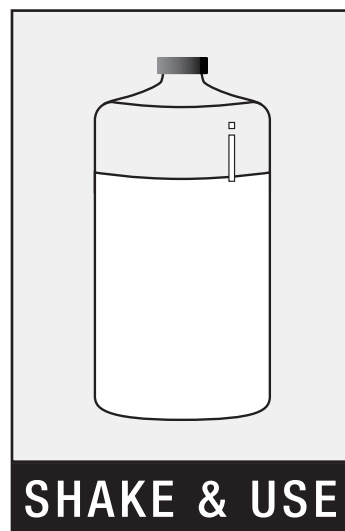
Oil emulsion vaccines are mixtures of droplets of water, containing antigen, surrounded by oil. When handled properly this mixture is very stable. Oil emulsion vaccines should be stored at refrigeration temperatures (45° F or 7° C). Avoid overheating or freezing these products. Prior to use, the vaccine should be slowly warmed to room temperature (76° F or 25° C). This can be accomplished by removing the product from refrigeration and letting it set out in an environmentally controlled room (76° F) overnight.

OIL EMULSION VACCINE PRESENTATIONS



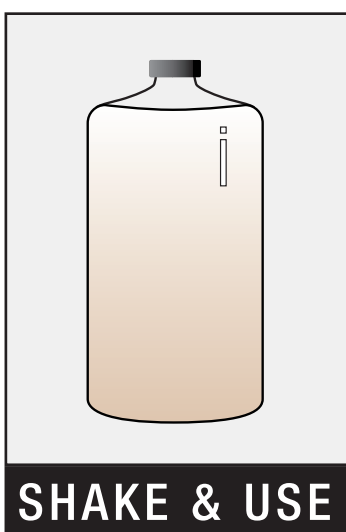
NORMAL EMULSION

A normal emulsion will appear white from the top of the bottle to the bottom. There will be no layers noticed. The product should be gently shaken prior to use.



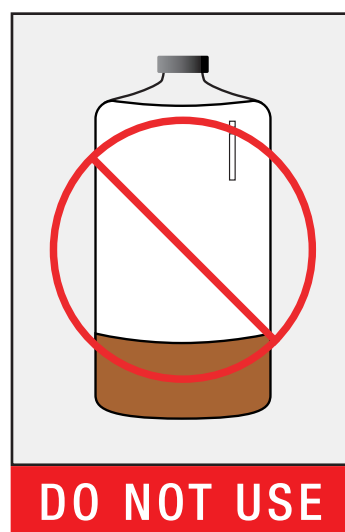
CREAMING

Creaming occurs when free oil in the product floats to the top of the bottle creating a clear or light white layer. This is a normal process that happens sporadically during shipment. The product should be gently shaken prior to use.



SETTLING

Settling occurs in products with high antigen content. There will be a gradual darkening in color towards the bottom of the bottle. There will be no distinct layers noticed. The product should be gently shaken prior to use.



BROKEN EMULSION

A broken emulsion occurs when the two components of an emulsion separate. There will be a distinct water with antigen layer at the bottom of the bottle which may appear light to dark brown. This product should not be used. The manufacturer of the product should be notified of this presentation.